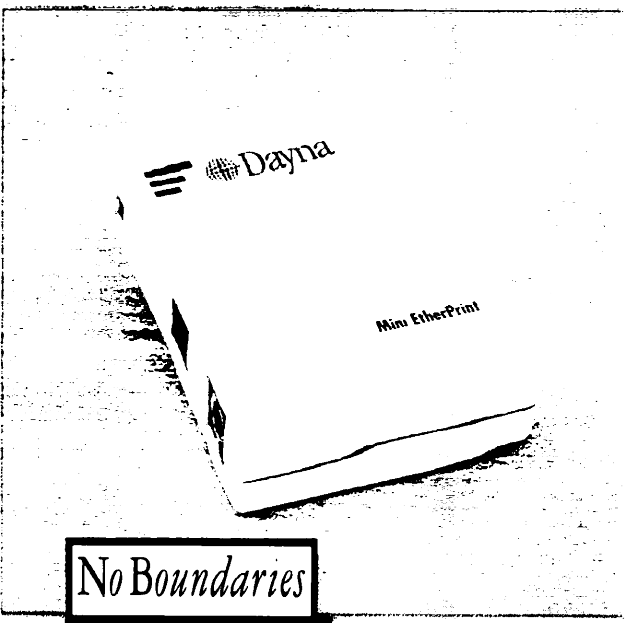


Compact,

Affordable,

Ethernet To

LocalTalk

Connection.

No Boundaries

NO LIMITS

Mini EtherPrint

Ethernet to LocalTalk Bridge

User's Guide

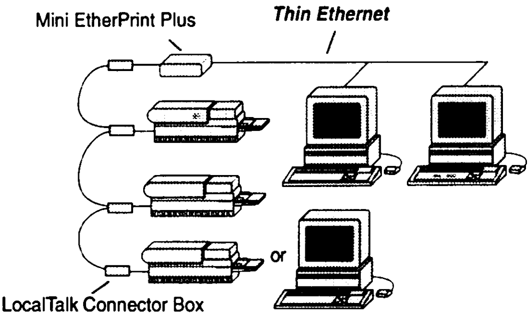
Dayna®

Mini EtherPrint Installation

Mini EtherPrint and Mini EtherPrint *Plus* are bridges connecting LocalTalk printers and other devices directly to Ethernet networks. Here's a quick hardware installation summary. For more detailed procedures, we suggest you read Chapter 1.

1. **Setting the Switch.** The AppleTalk Phase Protocol switch on the bottom of your Mini EtherPrint can be toggled between AppleTalk Phase 1 (down) and Phase 2 (up) protocols. As shipped from the factory, the switch is in the Phase 2 position. Refer to the section **Setting the AppleTalk Phase Protocol Switch** in Chapter 1 for more information.
2. **Connect Mini EtherPrint to the Network Cable System.** Connect Mini EtherPrint to your thin Ethernet or 10BASE-T cable system. Refer to **Connecting Mini EtherPrint to the Network** in Chapter 1.
3. **Connect to LocalTalk Devices.** To connect a single device to EtherPrint, use the standard DIN-8-to-DIN-8 LocalTalk printer cable supplied with Mini EtherPrint or the DIN-8-to-DB-9 Adapter Cable (available through Customer Service) for older-style connectors. Plug one end of the cable into the LocalTalk port on Mini EtherPrint and the other end into the LocalTalk port on the printer.

   If you are connecting more than one device to Mini EtherPrint, you must use LocalTalk connector boxes. You will need one LocalTalk box for Mini EtherPrint and one for each connected device. Refer to the section in Chapter 1, **Connecting Multiple Devices to Mini EtherPrint**, for more information.
4. **Plug it in to Turn it on.** To power up Mini EtherPrint, simply connect the AC adapter cord to the power port and then plug the AC adapter into an electrical outlet.
5. **It Works!** To verify that a single device is connected properly, log in to a Macintosh workstation, open the Chooser, select the printer, and print a document. To verify that multiple devices are working, open the EtherPrint Administrator Information window as described in Chapter 2.
6. **Here's How it Looks.** Here's one example of a network configuration using Mini EtherPrint *Plus*. For other examples using Mini EtherPrint and Mini EtherPrint *Plus*, see the **Network Configurations** section in Chapter 1.



Using EtherPrint Software

Mini EtherPrint includes software that provides management and control of the LocalTalk devices connected to it. EtherPrint Administrator lets you name Mini EtherPrint, assign it to a zone, and give it a password. You can also use the EtherPrint Administrator and SecurIt software to secure access to selected devices. Here are some tips to get you started.

EtherPrint Administrator

1. **Using the Administrator.** Launch EtherPrint Administrator. You must use the Administrator disk that came with Mini EtherPrint. Old versions will not be able to locate your Mini EtherPrint. Click your network default zone and select the <Unnamed> EtherPrint in the list. Click the CONFIGURATION button to open the Configuration dialog box. Click the DONE button when you complete the next steps.
2. **Naming Mini EtherPrint.** Click the NAME button. Type in a name for Mini EtherPrint of up to 19 characters. Click OK.
3. **Changing Mini EtherPrint's Zone.** Click the ZONE button. A window will open showing a list of Phase 2 zones to which Mini EtherPrint can be assigned. Select a zone, and click OK.
4. **Assigning a Password.** To assign a password to Mini EtherPrint (securing access to Configuration information), click the PASSWORD button and enter a password. When you are finished, click OK.
5. **Device Security.** To secure access to specific devices connected to Mini EtherPrint, click the SECURIT button. Assign a password to any or all of the listed devices, and click OK.
6. **EtherPrint Information.** Select an EtherPrint in the EtherPrint Administrator list, and double-click the name or click the GET INFO button to list the serial number, ROM version, zone, and EtherPrint name. This window also lists devices attached to Mini EtherPrint.

SecurIt

1. **Installation.** Install SecurIt on every Macintosh needing access to a password-protected device. Using the Installer on the *EtherPrint Management Software* disk, install and launch SecurIt from the Control Panel. You may pre-configure SecurIt for many installations.
2. **Accessing Devices.** To locate a LocalTalk device, click the SELECT button in the SecurIt window. Select the zone the device is in, and double-click the device name or click OK. The device will appear in the Select window and prompt you to enter a password. The password you enter must exactly match the case-sensitive password assigned within EtherPrint Administrator.
3. **Changing Passwords or Removing Devices.** To change the password for a device on the list, select the device and click the CHANGE button. Change the password and click OK. To remove a device, select it and click the REMOVE button. You will be asked to confirm your decision. To remove the device, click OK.
4. **Verifying Device Access.** If a device does not appear in the Chooser after you enter its password, check the password and reenter it within SecurIt. Remember, the password is case-sensitive.

Mini EtherPrint

User's Guide

Compact Ethernet-to-LocalTalk Bridge

First Edition
First Revision
May 1995

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FCC Radio Frequency Interference Statement

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference, in which case the user will be required to correct the interference at his own expense.

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Introduction

The EtherPrint family of bridges lets you connect LocalTalk printers and other devices directly to your Ethernet network. They also work with other LocalTalk devices, such as Macintosh computers and network modems. EtherPrint products work with *any* brand of LocalTalk-compatible network printer.

The EtherPrint family includes standard-sized devices such as EtherPrint-3 and EtherPrint-3 *Plus*. These two devices contain all three kinds of Ethernet connections (AUI, BNC, and RJ-45).

The compact-sized Mini EtherPrint, Mini EtherPrint *Plus*, Mini EtherPrint-T, and Mini EtherPrint-T *Plus* bridges are the newest additions to the EtherPrint family.

Standard Features

Mini EtherPrint includes all the ease-of-use and quality you already associate with the EtherPrint family, including easy installation and start-up, and security software for managing both Mini EtherPrint and the LocalTalk devices connected to it. It supports both AppleTalk Phase 1 and Phase 2 protocols. So, no matter how large your network becomes, all your Ethernet users can access LocalTalk devices from any zone.

You can use printers connected to EtherPrint from any workstation running AppleTalk print services. From a Macintosh, EtherPrint lets you select the printer through the Chooser. From a PC workstation, you can print to EtherPrint connected devices using network print services available with products such as Farallon PhoneNET PC, TOPS, and NetWare for Macintosh.

What's New?

In addition to a compact size and sleek design, the Mini EtherPrint family supports between two and up to eight devices, and contains a reset switch so that the device can be easily restarted.

Mini EtherPrint

These models support up to two LocalTalk devices. Mini EtherPrint comes with a built-in BNC connector for thin Ethernet cable systems. Both versions (Mini EtherPrint and Mini EtherPrint-T) come with a standard mini-circular DIN-8 connector, a DIN-8-to-DIN-8 LocalTalk printer cable, and an RJ-45 connector.

Mini EtherPrint Plus

Plus models support up to eight LocalTalk devices. Mini EtherPrint *Plus* has a built-in BNC connector and an RJ-45 port for twisted-pair cabling, while Mini EtherPrint-T *Plus* has an RJ-45 port only. Again, both versions come with a standard mini-circular DIN-8 connector, and a DIN-8-to-DIN-8 LocalTalk printer cable.

Network Control & Security

Mini EtherPrint includes software for managing and controlling the LocalTalk devices on your network. The EtherPrint Administrator program lets you assign EtherPrint a name, zone, and configuration password. You can also assign separate passwords to devices connected to EtherPrint.

SecurIt, Dayna's security protection software, provides access to password-secured printers or other LocalTalk devices attached to Mini EtherPrint. If SecurIt is not installed and configured with the correct password on that Macintosh, secured devices do not appear in the Chooser.

Which Printers Can I Use?

Mini EtherPrint supports any LocalTalk-compatible network printer, including all Apple LaserWriter printers and LocalTalk printers from vendors such as IBM, Hewlett-Packard, Texas Instruments, CalComp, QMS, Qume, Data Products, Compaq, and Canon.

ImageWriter printers, however, are not network printers without a network access card installed. ImageWriter printers only work with EtherPrint if they have a network access card. (You can purchase a network access card from your Apple dealer.)

How to Use This Guide

This guide describes how to install, use, and troubleshoot Mini EtherPrint and Mini EtherPrint *Plus*. It also explains how to use the security software to manage the LocalTalk devices on your network. It assumes that you have an installed, functioning network and a basic understanding of how to wire Ethernet and LocalTalk networks and use LocalTalk-compatible printers.

Chapter 1, **Mini EtherPrint Hardware and Installation**, describes Mini EtherPrint and Mini EtherPrint *Plus* devices. It also describes the associated network cables and connectors.

Futhermore, Chapter 1 explains how to install and test Mini EtherPrint and Mini EtherPrint *Plus* on your network. It contains sample network configuration diagrams using different types of Ethernet media and different numbers of LocalTalk devices.

Chapter 2, **Using EtherPrint Administrator**, tells you how to give a name, zone, and configuration password to Mini

EtherPrint. It also explains how to find the ROM version and serial number.

Chapter 3, **EtherPrint Device Security**, is helpful if device security is important to you. It describes how to assign passwords to printers and other LocalTalk devices attached to Mini EtherPrint. It also explains how to secure device access to password-protected printers by installing and configuring SecurIt on individual Macintosh workstations.

Chapter 4, **Solving Problems**, describes how to troubleshoot Mini EtherPrint and Mini EtherPrint *Plus.*

Appendix A **Service, Support, Sales, and Specifications**, explains how to get technical support from Dayna Communications for your Dayna products. It also provides technical data about Mini EtherPrint products.

This guide ends with a **Glossary** and an **Index**.

What You Get With Mini EtherPrint

Mini EtherPrint and EtherPrint *Plus* include these items.

EtherPrint Management Software

One disk containing the SecurIt Installer, EtherPrint Administrator, SendEcho Utility, and Read Me file with software notes.

User's Guide and Warranty Registration Card

The Mini EtherPrint package includes a Quick Start card (bound inside this manual) and a Warranty Registration card. Be sure to fill your warranty out and return it to us within 30 days of purchase. This will ensure that your Mini EtherPrint is registered for its lifetime warranty. Also, as a registered customer, you'll receive product update information.

Cables and Connectors

This table shows the cable and connector types for each Mini EtherPrint model.

Model	Connectors		Cables	
	BNC	RJ-45	Coax; Thin Ethernet	10BASE-T
Mini EtherPrint	✓	✓	✓	✓
Mini EtherPrint-T		✓		✓
Mini EtherPrint *Plus*	✓	✓	✓	✓
Mini EtherPrint-T *Plus*		✓		✓

All models come with a standard mini-circular DIN-8 connector, and a DIN-8-to-DIN-8 LocalTalk printer cable.

Please note that some older-model LocalTalk devices require a DB-9 to DIN-8 adapter cable. You can request one free of charge by calling Dayna's Customer Service Department.

Hook and Loop Tape Attachment Kit

This kit includes two pieces of hook and loop tape (with adhesive) that can be used to mount Mini EtherPrint on any surface, including your printer.

Read Me First File

The Read Me First file on the *EtherPrint Management Software* disk includes information that wasn't available when this guide was printed. To read the file, simply double-click its icon.

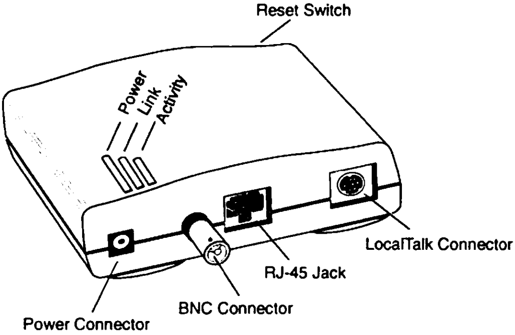
SendEcho Read Me File

This TeachText document is included with your EtherPrint software. It describes how to use your SendEcho utility. If you can't see any of the devices connected to EtherPrint, use SendEcho to help diagnose problems. The SendEcho Read Me file contains instructions for using the SendEcho utility.

Chapter 1
Mini EtherPrint Hardware and Installation

This chapter describes the Mini EtherPrint family of devices and its cables and connectors. It also details installation instructions, and includes network configuration examples.

The top panel has three LEDs representing power, link status, and activity.



Mini EtherPrint Back View

- The power light comes on when Mini EtherPrint is initially turned on; a flashing light indicates an error
- The link status light indicates whether the Mini EtherPrint RJ-45 port is connected to a 10BASE-T cable system that has a valid cable connection to a hub
- The amber activity light flashes as data is transmitted through the device

All Mini EtherPrint models have an RJ-45, a single LocalTalk port, and a power connector on the back panel. They all also have an AppleTalk Phase 1/Phase 2 switch on the bottom panel, and a reset switch on the front.

Mini EtherPrint-T models have only the RJ-45 jack. All of the other models have single BNC ports as well.

Mini Ethernet Address and Serial Number

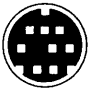
Each Mini EtherPrint device is assigned a unique 12-digit Ethernet address. The first six digits are always 008019 and identify Dayna Communications as the manufacturer. The next six digits are device-unique Ethernet address numbers, and are also the device's serial number.

You can find the serial number below the bar code label on the bottom of the device, or within the Administrator as described in Chapter 2. Please have the serial number available if you call Customer Service.

Mini EtherPrint Connectors and Cables

The following terms describe cables and connectors.

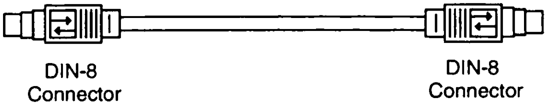
LocalTalk Port



The Mini EtherPrint LocalTalk port accepts a DIN-8 connector. If you're connecting a single LocalTalk printer, plug one end of the LocalTalk printer cable into this port and the other end into the printer. If you connect multiple devices to Mini EtherPrint and Mini EtherPrint *Plus* you must use LocalTalk connector boxes and cables to daisy chain the devices together.

LocalTalk Printer Cable

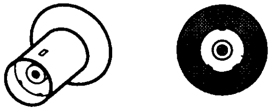
Each model of Mini EtherPrint comes with a 3-foot DIN-8-to-DIN-8 cable. Use this to connect a single LocalTalk device that has a DIN-8 port.



> *Note—*
>
> *Some printers, including printers from Hewlett-Packard, require LocalTalk connector boxes to work with Mini EtherPrint because of the printer's impedance requirements.*

Thin Ethernet Cable

Thin Ethernet cable is usually quarter-inch black coaxial cable, (identified by type, such as RG-58/U) that uses a cylindrical BNC connector to attach to the BNC port.

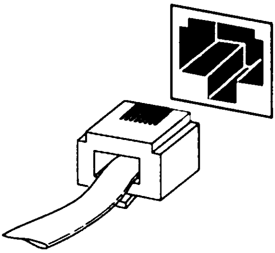


BNC Connector

Thin Ethernet cables can use a T- or Y-shaped connector to plug into the BNC port on the Mini EtherPrint back panel.

Mini EtherPrint-T Connectors and Cables

Mini EtherPrint-T and Mini EtherPrint-T *Plus* support 10BASE-T cable systems which use unshielded twisted-pair wiring with RJ-45 eight-conductor plugs at each end. The RJ-45 plug connects into the RJ-45 jack on the rear panel.



The link status LED, located on the top panel, remains lit when the 10BASE-T cable is plugged in correctly to a functioning 10BASE-T-compliant network.

10BASE-T Extension Cable

A 10BASE-T extension cable is provided with Mini EtherPrint-T and Mini EtherPrint-T *Plus*. One end plugs into the RJ-45 network connector and the other end connects to the network or plugs directly into a 10BASE-T Hub.

Hardware Installation

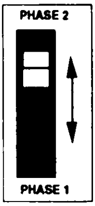
Here's how to install both models of Mini EtherPrint and Mini EtherPrint *Plus*.

> ***Note—***
>
> *Unless otherwise specified, these instructions use the term Mini EtherPrint to refer to the entire family of devices.*

1. Set the AppleTalk Phase switch.
2. Connect Mini EtherPrint to the Ethernet cable system.
3. Connect Mini EtherPrint to the printer or other LocalTalk devices.
4. Plug in Mini EtherPrint and turn on the attached devices.

> ***Note—***
>
> *Mini EtherPrint's innovative address mapping scheme lets you start up EtherPrint and the devices attached to it in any order. It is not necessary to turn off a connected printer, for example, before powering up EtherPrint.*

Setting the AppleTalk Phase Protocol Switch



There is an AppleTalk Phase Protocol switch on the bottom of your Mini EtherPrint. As shipped from the factory, the switch is in the Phase 2 position.

This switch lets you toggle between AppleTalk Phase 2 protocols (UP) and Phase 1 protocols (DOWN). Change the switch to the DOWN position if you are running Phase 1 protocols.

If you would like a complete explanation of AppleTalk protocols to determine which AppleTalk version your network uses, refer to Chapter 2.

Connecting Mini EtherPrint to the Network

Once you've checked the switch setting on the bottom panel, you're ready to connect Mini EtherPrint to the network.

> *Note—*
>
> *You can only connect Mini EtherPrint to one type of cable system at a time. For example, don't connect to a thin Ethernet cable and a 10BASE-T cable at the same time.*

Using the BNC Connector

Here's how to connect to a thin Ethernet cable.

1. Attach one arm of the BNC T-connector to the thin Ethernet cable. If the printer is the last device on the cable, make sure you put a 50Ω terminator on the other arm of the T-connector.
2. Attach the T-connector to the BNC port on Mini EtherPrint.

Using the RJ-45 Jack

To connect to a 10BASE-T network cable, simply insert the 10BASE-T extension cable (included) plug into the RJ-45 jack on Mini EtherPrint. When a working connection has been established, the link status LED will glow.

Connecting to the Printer

When you connect Mini EtherPrint to a printer, it is not necessary to switch off the printer's power before powering up

EtherPrint. You can connect to a LocalTalk printer using the printer cable, the adapter cable, or LocalTalk connector boxes.

Using the Printer Cable

In most cases, you can connect Mini EtherPrint to a LocalTalk-compatible printer using the DIN-8-to-DIN-8 LocalTalk printer cable supplied with Mini EtherPrint. Simply plug one end of the cable into the DIN-8 port on Mini EtherPrint and the other into the DIN-8 port on the printer.

Using the Adapter Cable

Some LocalTalk printers use a DB-9 connector instead of a DIN-8 connector. If you have such a printer, you will need to obtain a DB-9 to mini-DIN-8 adapter cable to connect the printer to the printer cable. The cable is available for free from Dayna Customer Service. Here's how to use it.

1. Connect the DIN-8 connector on the LocalTalk printer cable to the DIN-8 connector on the adapter cable.
2. Plug the DIN-8 connector on the printer cable into Mini EtherPrint.
3. Plug the DB-9 connector on the adapter cable into the printer.

Using LocalTalk Connector Boxes

LocalTalk connector boxes (not included) must be used when connecting multiple devices to Mini EtherPrint. Also, some non-Apple printers, such as Hewlett-Packard printers, won't work with EtherPrint unless you connect them using LocalTalk connector boxes. Here's how.

1. Start with the correct number. You will need one connector box for Mini EtherPrint and one for each device you are connecting.
2. Plug a LocalTalk connector box into the DIN-8 port on the back of Mini EtherPrint and a connector box into the DIN-8 port on the printer.
3. Use a LocalTalk cable (not included) to link the connector boxes.

If you choose to use PhoneNET connector boxes, make sure to terminate them correctly.

Connecting Multiple Devices to Mini EtherPrint

You can connect Mini EtherPrint models to a maximum of two LocalTalk devices. Mini EtherPrint *Plus* models support up to eight LocalTalk devices.

Mini EtherPrint and Routers

You can connect all LocalTalk devices (including workstations, printers, and network modems) to Mini EtherPrint, except for routers or devices that perform routing functions. For instance, LocalTalk network modems that include routing capabilities cannot be accessed from the Ethernet side of Mini EtherPrint.

Using Mini EtherPrint With PhoneNET Cables

If you're using Farallon PhoneNET cables to connect your LocalTalk printers, make sure to follow their termination instructions to terminate the first and last LocalTalk devices.

Powering Up

Because Mini EtherPrint is truly "plug-and-print," you can power it and the LocalTalk devices attached in any sequence. You can even connect devices while their power is on.

Connect the AC adapter cord to the Mini EtherPrint power port and then plug the AC adapter into an electrical outlet. This turns on Mini EtherPrint. The amber activity light should blink once after about 25 seconds, and will remain on unless a connected device is powered on. If the power light blinks repeatedly, refer to the next section, **Understanding the Power Light**, for help in diagnosing the problem.

> ***Note —***
>
> *When a Mini EtherPrint is connected to more than one device, the activity light only comes on after it has acquired all the network addresses it needs. If you're installing Mini EtherPrint on a large Phase 1 network and the activity light fails to come on, consider upgrading to AppleTalk Phase 2, which lets you assign more network numbers to create more AppleTalk addresses. If you need more AppleTalk addresses on Phase 2, simply extend your cable range to allow more network numbers.*

When Mini EtherPrint recognizes the printer, the activity light will turn off momentarily and then flash when there is network activity.

Understanding the Power Light

The green power light on the top of Mini EtherPrint is used to verify that the hardware is working. A flashing power light indicates an error. Call Dayna Customer Service.

Understanding the Activity Light

Upon power up, the amber activity light should blink once and then remain on until Mini EtherPrint can communicate with the LocalTalk devices. After that it will blink as data is being transmitted through the devices.

If the activity light remains on without flashing for more than 30 seconds after a printer initializes and prints a test page, you should check the cables.

Using the Reset Switch

Mini EtherPrint has a reset switch on its side panel. To quickly restart Mini EtherPrint without disconnecting and reconnecting its power cord, press this switch with a pen or a sharp pencil. You will still need to wait approximately 25 seconds after the "reset" before you begin sending data. This allows time for internal self-testing as well as for reconfiguration of the device.

Using IBM PCs or Compatibles With Mini EtherPrint

You can use IBM PCs or compatibles with Mini EtherPrint on any network operating system (such as Farallon PhoneNET PC, TOPS, or NetWare for Macintosh) that provides AppleTalk print services over Ethernet. To learn how to set up these print services, refer to your network documentation.

Testing Mini EtherPrint Installation and Setup

To verify that Mini EtherPrint has been set up correctly, open the EtherPrint Information window and look for your list of LocalTalk devices. You can access this window by clicking the GET INFO button within EtherPrint Administrator as described in the section, **Verifying Information Within the Information Window**, in Chapter 2. Mini EtherPrint is working correctly if the window lists all the LocalTalk devices you have connected.

To verify that Mini EtherPrint works with printers, make sure you've selected the EtherTalk driver in the Network control panel on your Macintosh, open the Chooser, select a printer attached to Mini EtherPrint, and print a document. If the printer doesn't appear in the Chooser, refer to Chapter 4 for troubleshooting procedures.

To verify that Mini EtherPrint works with network modems, open the Chooser from a Macintosh workstation on the Ethernet cable and verify that the modem appears in the list of available devices. Access the network modem and make a remote connection with it.

To verify that Mini EtherPrint works from a PC workstation, set up the network and application print services to support the printer connected to Mini EtherPrint and print a file. See your network and application documentation for details.

If you can't see any of the devices connected to Mini EtherPrint in the Chooser, you can use SendEcho to diagnose the problem. For detailed information on how to use the SendEcho utility included with your EtherPrint management software, review the SendEcho Read Me information on the *EtherPrint Management Software* disk.

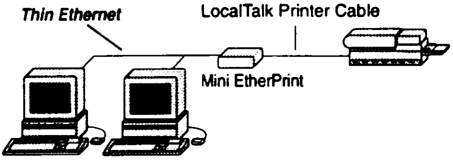
Removing Mini EtherPrint

To remove Mini EtherPrint from your network, unplug the AC adapter from the electrical outlet and remove the cables that connect Mini EtherPrint to the printer.

Network Configuration Examples

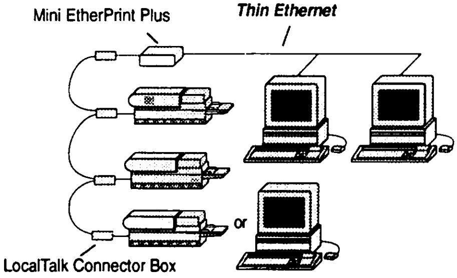
The following diagrams show different ways to connect Mini EtherPrint and Mini EtherPrint *Plus* to your network, using different Ethernet media. Follow the instructions that come with your LocalTalk connector boxes to make sure that all devices, connectors, and cables are installed properly.

In the first example, Mini EtherPrint connects one printer to a thin Ethernet backbone. No LocalTalk connector boxes are required. Use the LocalTalk printer cable supplied with Mini EtherPrint.



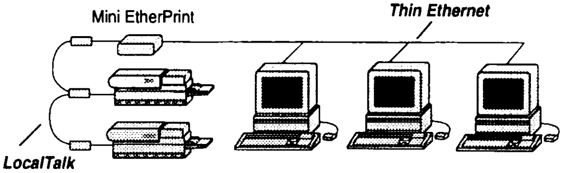
Mini EtherPrint Connected to One Device on Thin Ethernet

The next example shows Mini EtherPrint *Plus* connecting a group of three LocalTalk printers or Macintosh computers to a thin Ethernet backbone. When Mini EtherPrint is connected to more than one device, use LocalTalk connector boxes.



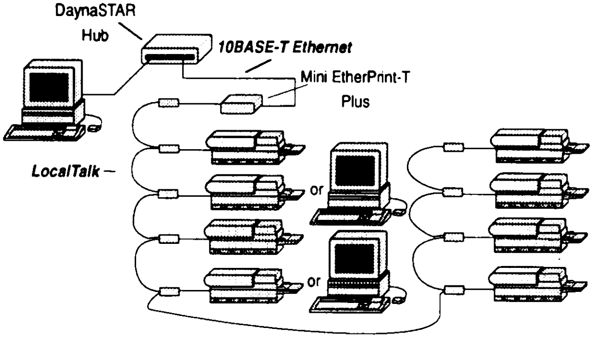
Mini EtherPrint *Plus* with Thin Ethernet Network

Next, Mini EtherPrint is used to connect two LocalTalk devices to a thin Ethernet network.



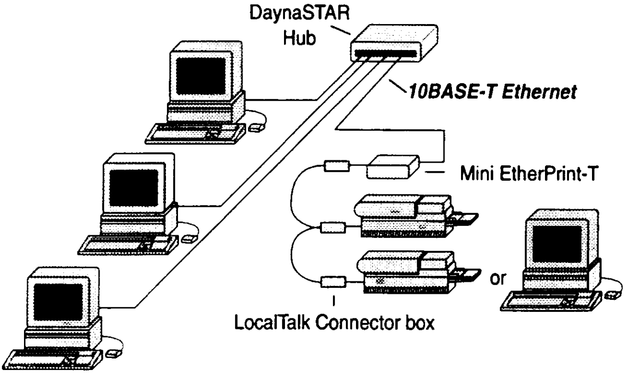
Mini EtherPrint with Thin Ethernet Network

In this example, EtherPrint-T *Plus* is used to connect eight LocalTalk devices to a 10BASE-T network.



Mini EtherPrint-T *Plus* with Twisted-Pair Network

In the final example, two LocalTalk devices are connected to 10BASE-T Ethernet using a Mini EtherPrint-T.

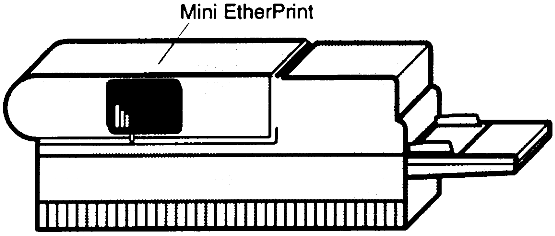


Mini EtherPrint-T with Twisted-Pair Network

The LocalTalk devices you connect to Mini EtherPrint make up a LocalTalk "subnet." These devices communicate exactly like devices on any other LocalTalk network using LocalTalk connector boxes and cables. Devices on the Ethernet side of Mini EtherPrint can access any device on the LocalTalk side of Mini EtherPrint, and vice versa.

Mounting Mini EtherPrint

You can attach Mini EtherPrint to any surface, including your printer, simply by using the Hook and Loop Tape attachment kit included with Mini EtherPrint. Simply peel the adhesive off the back of the hook and loop tape strips and attach one side to the bottom panel of Mini EtherPrint, and the other to the surface where you would like it mounted.



Mini EtherPrint Attached to a Printer with Hook and Loop Tape

If you do not wish to mount Mini EtherPrint to your printer, just place it on a flat surface, sitting on its rubber feet.

Chapter 2
Using EtherPrint Administrator

EtherPrint Administrator is designed to help you configure and manage your Mini EtherPrint devices. This chapter describes how to use EtherPrint Administrator to name, password-protect, and get information about Mini EtherPrint.

Identifying Which Protocol Your Network Uses

AppleTalk supports two EtherTalk protocols, Phase 1 and Phase 2. Under Phase 1, AppleTalk assigns network devices to zones based on their *physical* network connections. Phase 2 lets you assign devices such as printers to multiple *logical* zones, so that printers connected to the same physical cable can service different zones.

If you're using Phase 1 protocols, this icon appears in the Network control panel. To locate the Network control panel, select Control Panels in the Apple () menu of any Macintosh on an Ethernet network, and double-click the Network icon.

If you're using Phase 2 protocols, the double-arrowhead icon appears in the Network control panel. If the network uses AppleTalk Phase 2 protocols, any device connected to EtherPrint will always appear on startup in the default zone that you defined when you set up the Phase 2 internet router.

Running EtherPrint Administrator

You will find the EtherPrint Administrator program on the *EtherPrint Management Software* disk. To run the program, you must know which zone you will assign the Mini EtherPrint to. It isn't necessary to run the Administrator from a Macintosh connected to the same cable segment as Mini EtherPrint to assign it a name, zone location, and configuration password. However, to protect the integrity of your network, you will not be able to reconfigure zone locations when a router is located between the Macintosh and Mini EtherPrint.

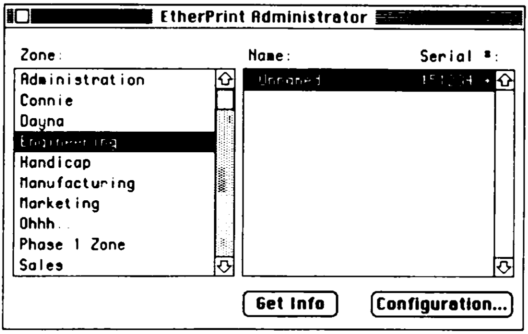
Note—

You will not be able to locate Mini EtherPrint with an old version of the Administrator. You must use the software disk that came with your Mini EtherPrint. However, your new Administrator is compatible with your old EtherPrint(s).

The information provided in this section applies to both versions of Mini EtherPrint and Mini EtherPrint *Plus.* Insert the *EtherPrint Management Software* disk in your Macintosh and double-click the disk icon. You can copy EtherPrint

Administrator to your hard drive or run it from the floppy disk. Next, double-click the EtherPrint Administrator icon.

A message box saying "Looking for EtherPrint Devices, Please Wait" will appear until this window opens.



The ZONE list shows the zones on your network. The NAME list shows the names of all the EtherPrint devices located in the zone selected in the ZONE list. The SERIAL NUMBER list shows the device's serial number.

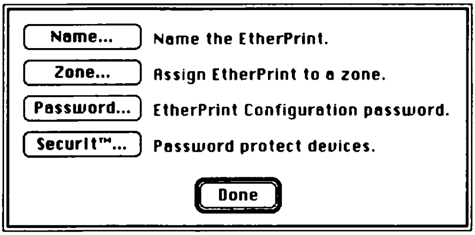
> *Note—*
>
> *LocalTalk printers are assigned to the same zone as the EtherPrint device to which they are connected. Other LocalTalk devices are assigned to their own zone.*

If you currently have an EtherPrint device version 1.x on your network, it appears in the EtherPrint Administrator window as "EP 1.0." Serial numbers followed by a plus sign (+) indicate an EtherPrint *Plus* model. Serial numbers without the plus identify a standard or Mini EtherPrint.

Click the GET INFO button or double-click a selected Mini EtherPrint to access specific information. The information includes Mini EtherPrint's name, serial number, ROM version, and zone, and lists any devices currently connected to your EtherPrint. Refer to the section, **Verifying Information Within the Information Window**, in this chapter for more details.

Configuring for the First Time

Once Mini EtherPrint is connected, it appears in your network's default zone as <Unnamed>. To configure your new EtherPrint, select it and click the CONFIGURATION button to open this Configuration dialog box.



Name the EtherPrint.

Assign EtherPrint to a zone.

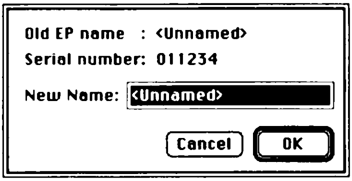
EtherPrint Configuration password.

Password protect devices.

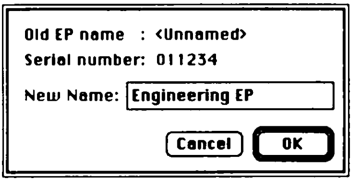
Use the first three buttons, NAME, ZONE, and PASSWORD, to give EtherPrint a name, assign it to a zone, and give it a configuration password. The fourth button, SECURIT, is used to assign unique passwords to individual LocalTalk devices connected to EtherPrint. Chapter 3, **EtherPrint Device Security**, explains how to use SecurIt.

Naming Mini EtherPrint

Click the NAME button. This window contains Mini EtherPrint's name and serial number. The name will read <Unnamed> until you assign it a new name.


Old EP name : <Unnamed>
Serial number: 011234
New Name: <Unnamed>

Type a name in the New Name box. It's a good idea to choose a name that represents Mini EtherPrint's location, or other identifying characteristics, to help you more easily administer the devices connected to it. The name you select can have up to 19 characters.


Old EP name : <Unnamed>
Serial number: 011234
New Name: Engineering EP

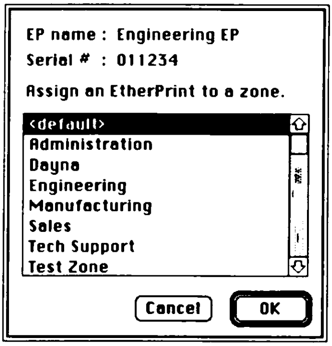
Changing Phase 2 Zone Assignments

When you install Mini EtherPrint, the device initially comes up in the default zone. EtherPrint Administrator lists the zones the Mini EtherPrint device can "see," and lets you change the Phase 2 zone to which Mini EtherPrint is assigned. Here's how.

Note—

If a zone is assigned to a different physical segment, it is not valid for Mini EtherPrint. Only valid zones will appear.

1. Click the ZONE button in the Configuration dialog box. A window will open showing the name of the device and a list of the Phase 2 zones to which it can be assigned.



EP name : Engineering EP
Serial # : 011234
Assign an EtherPrint to a zone.

- <default>
- Administration
- Dayna
- Engineering
- Manufacturing
- Sales
- Tech Support
- Test Zone

2. Select the zone to which you want to assign Mini EtherPrint, and click OK.

Note—

Because Phase 1 does not support multiple logical zones, you can only use this feature of the Administrator on Phase 2 networks. If you're on a Phase 1 network, the ZONE button will be grayed out. Even if you don't use Phase 2 zones, you can use the Administrator to identify the serial number and ROM version number, name Mini EtherPrint, and assign it a password. Also, use the Administrator to verify that all LocalTalk devices are attached to Mini EtherPrint correctly.

The Default Zone

You will always see a zone named <default> in the Zone dialog. The default zone is created during router installation and is one of the named zones. It will be listed by both its own name and as <default>. For example, if Test Zone is the default zone, it is listed twice in the ZONE list, as Test Zone and as <default>.

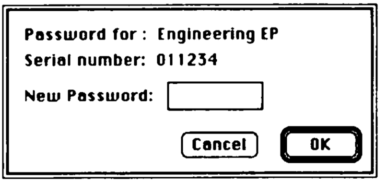
If you assign Mini EtherPrint to the default zone, it always remains in the default zone, even if you change the default zone. If you assign Mini EtherPrint to a named zone, it always remains in the named zone, unless you delete the named zone containing the device, in which case Mini EtherPrint reverts to the default zone.

For example, assume that Manufacturing is the default zone. If you assign Mini EtherPrint to the default zone, it will be in Manufacturing. If you change the default zone to Sales, the device is now assigned to Sales. If you assign Mini EtherPrint to Engineering, it will remain in Engineering as long as it is a valid zone.

> *Note—*
>
> *Remember, if Mini EtherPrint comes up in an invalid zone, it reverts to the default zone.*

Assigning a Password to Mini EtherPrint

It is possible to password-protect access to the Configuration dialog box for your Mini EtherPrint; however, you don't need to assign a password if this doesn't suit your needs. To assign a password to Mini EtherPrint, click the PASSWORD button in the Configuration dialog box.



Password for : Engineering EP

Serial number: 011234

New Password:

Enter a password and click OK. The password can consist of up to eight characters and is case-sensitive. You will be asked to reenter the password. Once you have assigned a password, you must remember it to access the Configuration dialog box in the future. Click OK.

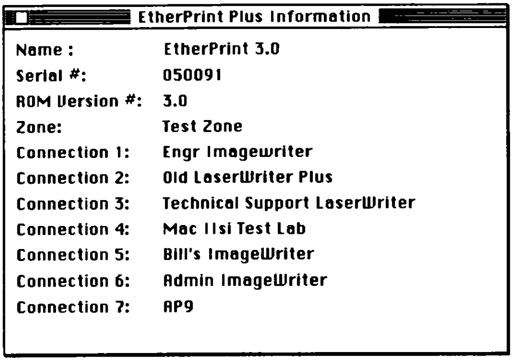
To change an existing password, you should follow the procedure above. However, you will first be asked to enter your old password before you can assign a new one. It's a good idea to record your password in a safe place. See the **Solving Problems** chapter for information on what to do if you forget your password.

Reinitializing Mini EtherPrint

If you don't want to use the security feature now, press the DONE button in the Configuration dialog box. Mini EtherPrint will reinitialize using the newly entered data. This process takes about 20 seconds.

Verifying Information Within the Information Window

Once you have accessed the EtherPrint Administrator and selected a device, double-click it, or click the GET INFO button to open the Information window.



Name : EtherPrint 3.0
Serial #: 050091
ROM Version #: 3.0
Zone: Test Zone
Connection 1: Engr Imagewriter
Connection 2: Old LaserWriter Plus
Connection 3: Technical Support LaserWriter
Connection 4: Mac IIsi Test Lab
Connection 5: Bill's ImageWriter
Connection 6: Admin ImageWriter
Connection 7: AP9

This window lists the Mini EtherPrint serial number (which is also the last six digits of the device's Ethernet address), the Mini EtherPrint ROM version number, the zone it is assigned to, and its name.

The EtherPrint Information window also lists all LocalTalk devices connected to the Mini EtherPrint in up to eight CONNECTION fields. If all the LocalTalk devices appear in the window, they are attached correctly. If there are fewer than the allotted number of devices attached to Mini EtherPrint, the extra field(s) will be left blank.

Chapter 3
EtherPrint Device Security

This chapter discusses the SecurIt device protection software. It explains how to use SecurIt with EtherPrint Administrator to secure LocalTalk device access on your network.

SecurIt

SecurIt is a security protocol that requires Mini EtherPrint to request a password from a Macintosh on the network before it will allow access to any password-protected LocalTalk device attached to it. Each connected device can be assigned a separate password. From a Macintosh computer with SecurIt installed you can see and select secured laser printers or other LocalTalk devices attached to Mini EtherPrint. From a Macintosh computer without SecurIt installed, you will not even see password-protected devices in the Chooser.

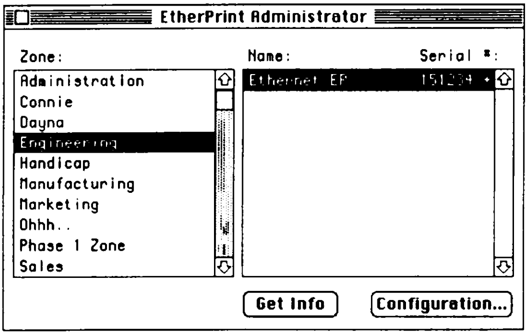
When to use Security

SecurIt allows you to restrict access to printers or other devices exclusively to authorized individuals or groups. The ability to secure access to LocalTalk printers and other devices can be very important. For example, password-protection might be an important feature for administrators of an educational facility to control access to specific printers, such as LaserWriters, that are off limits to students. Certain departments in corporations may want to restrict access to specialized devices such as color printers. Whatever your need to control or limit access, SecurIt makes it easy.

Configuring SecurIt Within EtherPrint Administrator

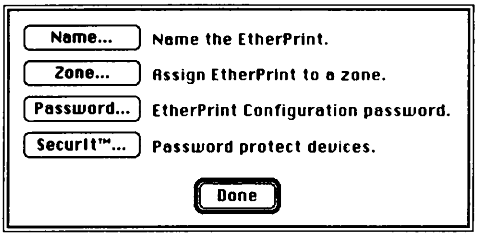
Using SecurIt begins within EtherPrint Administrator. Here's how.

Double-click the EtherPrint Administrator icon on the *EtherPrint Management Software* disk. A message box saying "Looking for EtherPrint Devices, Please Wait" will appear until the EtherPrint Administrator window opens.



Click the zone location of the Mini EtherPrint that is connected to the LocalTalk device(s) that you want to secure. Select the name of the Mini EtherPrint you want, and click the CONFIGURATION button.

If you have assigned a configuration password to this Mini EtherPrint previously, you will be asked to enter it now. If you enter the password correctly, this dialog will appear.


Name...
Name the EtherPrint.
Zone...
Assign EtherPrint to a zone.
Password...
EtherPrint Configuration password.
SecurIt™...
Password protect devices.
Done

Assigning Passwords to LocalTalk Devices

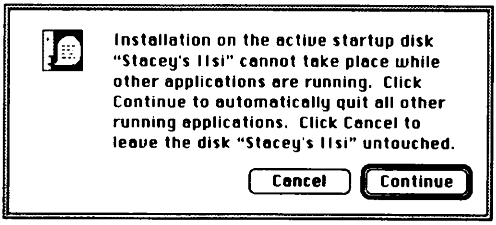
Click the SECURIT button. The SecurIt Administrator dialog lists all devices currently connected to that Mini EtherPrint. Notice the empty password field next to each device.

You can easily assign an eight-character, case-sensitive password to each of the devices in the window. Use the TAB key to move through the password fields or click at the beginning of each field. The password for each device is displayed in the box and can be edited by anyone with access to the Configuration window.

If you use EtherPrint Administrator to password-protect any LocalTalk devices, you must install SecurIt on every Macintosh that needs access to those devices.

Installing SecurIt

SecurIt installation requires you to restart your Macintosh, so you should not launch the Installer while running other applications. If necessary, the Installer will let you terminate the installation or exit from the application and continue the installation.



Installation on the active startup disk "Stacey's IIsi" cannot take place while other applications are running. Click Continue to automatically quit all other running applications. Click Cancel to leave the disk "Stacey's IIsi" untouched.

Under some conditions, the Installer will display this message even though you're not running any other applications. In this case, simply click CONTINUE.

Before you begin installing SecurIt, decide which Macintosh computers on your network will need to access the devices you secured when configuring Mini EtherPrint.

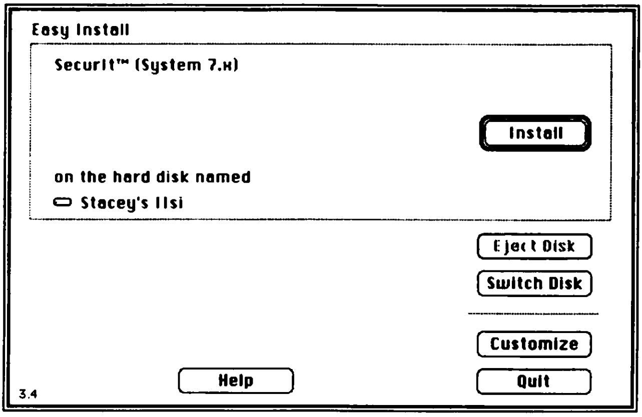
> *Note—*
>
> *It is not necessary to install SecurIt on every Macintosh for normal printer access. SecurIt should only be installed and configured on Macintosh workstations that need access to a password-protected LocalTalk device.*

Running the Installer

Installer

Here's how to install SecurIt.

1. Start up the Macintosh. Insert the *EtherPrint Management Software* disk in the Macintosh disk drive and the disk will open.
2. Double-click the Installer icon.
3. The SecurIt Installer screen will open. Click OK to open this Easy Install dialog box.



Easy Install

SecurIt™ (System 7.x)

on the hard disk named

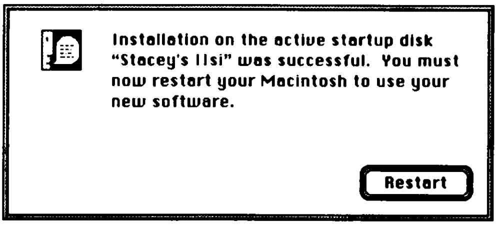
Stacey's IIsi

Make sure the dialog box shows the disk on which you want to install SecurIt. (Click SWITCH DISK if you want to install SecurIt on another disk.) Click the INSTALL button.

Note—

The Easy Install option supports all EtherPrint devices. You can use the Installer's Customize option to remove the EtherPrint software as described in the section ***Removing SecurIt*** *at the end of this chapter.*

4. While the installation takes place, the Installer displays a status dialog.
5. When SecurIt is completely installed, the Installer displays this message.

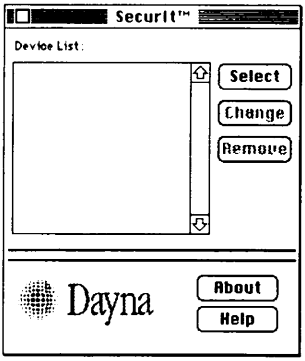


Installation on the active startup disk "Stacey's IIsi" was successful. You must now restart your Macintosh to use your new software.

6. Click RESTART. The Installer will restart your Macintosh. Now you're ready to configure SecurIt.

Launching and Configuring SecurIt

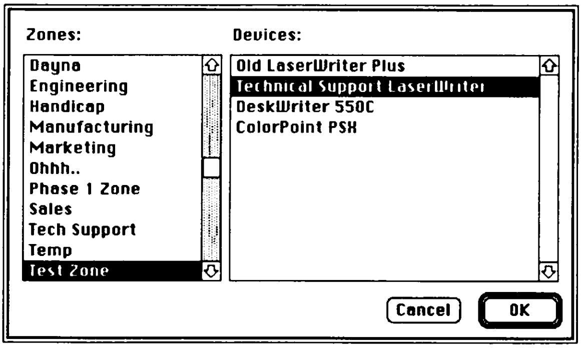
To provide access to a password-protected device from a Macintosh workstation, open the Control Panel and double-click the SecurIt icon.



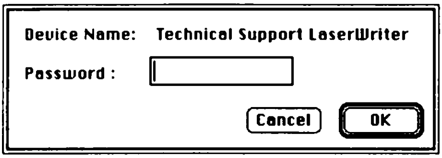
The SecurIt window will open. Until a device is selected in the device list, the CHANGE and REMOVE buttons will be gray and inaccessible.

Selecting Devices

Once you have opened SecurIt, you will need to select any password-protected devices that this Macintosh can access. To do this, click the SELECT button in the SecurIt window, and the Lookup Devices dialog will open.

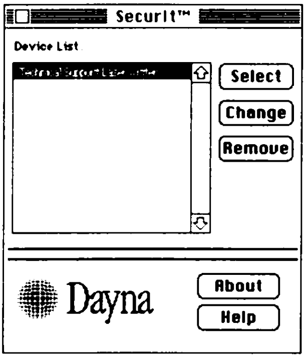


Select the appropriate zone and a listing of all LocalTalk devices attached to an EtherPrint within the zone will appear. You can access a device by double-clicking, or selecting it and clicking OK. You must enter the correct password exactly as it was assigned within EtherPrint Administrator in the Password field.


Device Name: Technical Support LaserWriter

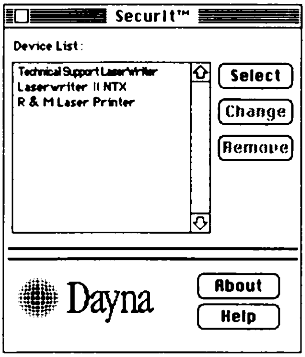
Password :

Type in the correct password and click OK. The device name will appear in the SecurIt device list.



Technical Support LaserWriter

Repeat this procedure for as many devices as you would like to access.



Technical Support LaserWriter
Laserwriter II NTX
R & M Laser Printer

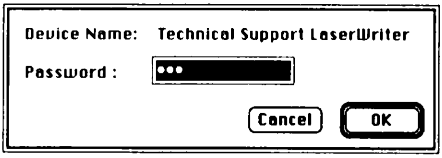
To verify that you have entered the password correctly and have access to the device, close the SecurIt window and open the Chooser. If the newly added device does not appear on the Chooser, verify the password and reenter it in SecurIt. Remember, the password is case-sensitive.

Changing Passwords for Devices

If you need to change the password of a device on your lists because its password has changed, here's how.

1. Select the device you would like to change by double-clicking its name, or clicking the CHANGE button.

2. The Change dialog displays the device name and the existing password. Gray dots represent the actual word. Change the device password by typing over the existing password. Click OK.

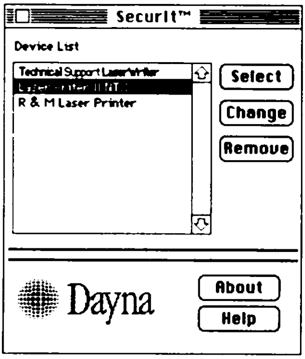


Device Name: Technical Support LaserWriter

Password : •••

Removing a Device

To remove a device from the SecurIt device list, first highlight the device you want to remove.



Click the REMOVE button. SecurIt will issue a warning dialog to confirm your decision to remove the device from the list. Click OK.

When you remove a password-protected device from SecurIt's device list, you will no longer be able to see the device in your Chooser and access will be completely cut off.

Installing SecurIt on Multiple Workstations

Here's how to install SecurIt on several computers requiring access to the same password-protected device list. We recommend that you use a copy of the disk and store the original in a safe place.

1. Unlock the *EtherPrint Management Software* disk and insert it in a Macintosh. Locate the SecurIt icon.
2. Double-click the SecurIt icon (not the Installer icon).
3. Select devices and assign passwords as the SecurIt instructions say, only do it on the disk instead of your hard drive.

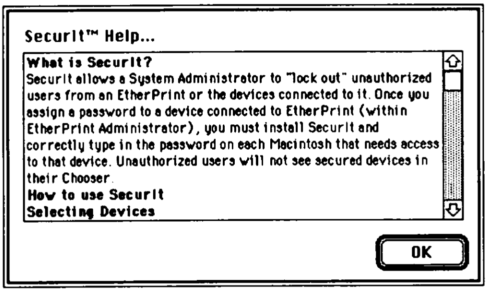
4. Insert this disk into each Macintosh requiring identical access privileges, and use the Installer to install SecurIt.
5. Repeat this procedure on every Macintosh needing access to password-protected devices.

> *Note—*
>
> *If you need to create more than one pre-configured copy of SecurIt, do so by duplicating the EtherPrint Management Software disk. The copy must be exact.*

SecurIt Help

SecurIt comes with on-line help designed to provide information and immediate answers to your questions.

Help is accessible through the SecurIt window. To start Help, click the HELP button in the SecurIt control panel to open this window. Scroll through the list for help when configuring SecurIt by selecting, changing, and removing devices.



SecurIt™ Help...

What is SecurIt?
SecurIt allows a System Administrator to "lock out" unauthorized users from an EtherPrint or the devices connected to it. Once you assign a password to a device connected to EtherPrint (within EtherPrint Administrator), you must install SecurIt and correctly type in the password on each Macintosh that needs access to that device. Unauthorized users will not see secured devices in their Chooser.
How to use SecurIt
Selecting Devices

Removing SecurIt

You can remove SecurIt by dragging it out of your System Folder, or you use the Installer on the *EtherPrint Management Software* disk. Here's how.

1. Launch the Installer. The Easy Install dialog box will open. Note the version of SecurIt that you have installed (6.x or 7.x) and click CUSTOMIZE.
2. The Custom Install dialog box will open. Select the version of SecurIt installed on your machine.
3. Hold down the OPTION key. The INSTALL button changes to REMOVE. Click REMOVE and the SecurIt software will be removed from your system. You'll get a message that the removal was successful and you need to restart your Macintosh. Click RESTART.

Chapter 4
Solving Problems

This chapter explains some general Mini EtherPrint troubleshooting procedures and then poses questions that present typical Mini EtherPrint problems and solutions.

Procedures

Check Power Connections

As a first troubleshooting step, always check cable and power connections to determine if they are the source of the problem. Make sure the power supply is securely plugged into Mini EtherPrint and the appropriate outlet. If you use a power strip, make sure it is switched on and, if necessary, reset the surge protection button. Check the power and cable connections to your LocalTalk devices also.

Run EtherPrint Administrator

Next, run the EtherPrint Administrator and make sure you can find the Mini EtherPrint name and serial number displayed in the correct zone. Finally, use the Chooser to select the printer connected to Mini EtherPrint and print a page.

Router Misconfiguration

Many Mini EtherPrint troubles are related to improperly configured routers. Make sure all routers on Mini EtherPrint's cable segment use the same configuration information used on that segment, specifically the same cable range, zone list, and default zone. Make sure that you don't assign the same cable range to different cable segments. Your router documentation describes how to set up and change its configuration information. When troubleshooting router problems, remember that a NetWare 3.11 server, with NetWare for Macintosh, functions as a router. This is a common source of AppleTalk network grief.

When you have multiple printers on the network, make sure they have different names, regardless of whether they're attached to Mini EtherPrint. For example, don't name two printers "LaserWriter II NTX." Two printers with the same name will cause a network conflict.

Questions and Answers

The following questions and answers address possible problems in a logical order, so you may want to review the entire sequence to identify the correct solution to your problem. If the problem persists or is clearly a hardware failure, contact Dayna Customer Service at (801) 269-7200.

When I turn on Mini EtherPrint, neither the activity light nor the power light comes on. Why?
Make sure that the AC adapter is connected to Mini EtherPrint and the adapter is plugged in. Check the power to the plug by trying another plug, or plugging something that is working properly into the questionable plug. If the problem persists, you may have a problem with Mini EtherPrint or the AC adapter. Call Customer Support.

When the printer is off, and I turn on Mini EtherPrint, the amber activity light continually flashes or shuts off completely. What's wrong?
If you're using a router on your network, check your router configuration. Restart Mini EtherPrint by either resetting the device or by unplugging the AC adapter and plugging it in again.

When I turn on Mini EtherPrint, the amber activity light stays on after I switch the printer on and it prints the test page. Why?
After the printer starts up, make sure you've waited long enough for the printer to establish communications with the network—30 seconds after the test page is printed should be long enough. If the activity light remains on, turn off Mini EtherPrint and the printer and check the cables. Restart Mini EtherPrint and the printer.

When Mini EtherPrint is connected to more than one device, the activity light only comes on after EtherPrint has acquired all the network addresses it needs. If you're installing on a large Phase 1 network and the activity light fails to come on, consider upgrading to AppleTalk Phase 2, which lets you assign more network numbers to create more AppleTalk addresses. If you need more AppleTalk addresses on Phase 2, simply extend your cable range to allow more network numbers.

Why does the link status LED on the top of Mini EtherPrint-T fail to light up when I connect it to a 10BASE-T network?
The link status light indicates that there is a valid cable connection between the EtherPrint-T and the hub. Make sure the plug is completely seated in the RJ-45 jack. Make sure the cable is connected to the hub, and that EtherPrint has power. Try a different 10BASE-T cable or a different port on the hub.

Why can't I see my Mini EtherPrint serial number in EtherPrint Administrator?

Check that you've selected the correct zone in EtherPrint Administrator. If the Macintosh is connected to an EtherTalk network, open the Network control panel and make sure you've selected EtherTalk. Make sure your routers are configured correctly. Check that the AppleTalk Phase Protocol switch is in the DOWN position if you're using AppleTalk Phase 1 protocols, and in the UP position if you're using Phase 2 protocols. If you change the switch setting, restart EtherPrint.

Mini EtherPrint starts up normally, but my LocalTalk printer doesn't appear in the Chooser. Why?

Make sure you can see the Mini EtherPrint serial number within EtherPrint Administrator. If you can't, follow the instructions in the previous answer. If you're looking for an ImageWriter, make sure it has a network access card installed. (You can purchase a network access card from your local dealer.) Also, confirm that the password entered for the device within the SecurIt control panel matches the password that is assigned to the printer within EtherPrint Administrator.

My serial number appears as F's (FFFFFF) or zeros (000000) within EtherPrint Administrator. What's wrong?

If your serial number appears in the EtherPrint Administrator window as FFFFFF or 000000, contact Customer Service.

Why does my printer disappear and reappear in the Chooser?

This probably indicates a router configuration problem. See the router configuration discussion at the start of this chapter. The problem could also be due to defective cable connections.

Why does Mini EtherPrint jump from zone to zone?

Typically, your routers' zone list and default zones don't agree. See the router configuration discussion at the start of this chapter.

I've installed a new router on my network and can no longer find my printer in the Chooser. What's wrong?

Restart Mini EtherPrint. Make sure you're looking in the correct zone for the printer.

Why can't I get my ImageWriter printer to work with Mini EtherPrint?

Since ImageWriter printers don't come with LocalTalk built in, they require a network access card to work with EtherPrint.

I can't remember the password I assigned to Mini EtherPrint. What should I do?

In case you are unable to remember the password, Dayna Customer Service can help. The number for customer service is (801) 269-7200. Should you need to call Dayna, please have the serial number from the EtherPrint setup screen handy. To protect your network's security, positive identification will be required.

Appendix A
Service, Support, Sales, and Specifications

Dayna Communications offers customers technical support, product information, and sales.

Technical Support

Technical support is free to any owner of a registered Dayna product. To register your product, fill out the included warranty registration card. Mail or FAX it to (801) 269-7363. This will ensure that your Dayna Mini EtherPrint is registered for its lifetime warranty.

Customer Service personnel are experts in using all Dayna products. They are available to help you when you run into problems not explained in this guide. Before calling, find the serial number on the bottom of your EtherPrint. Call (801)269-7200 between 7:30 AM and 5:30 PM Mountain Time, Monday through Friday. Ask for Customer Service. Please have your product serial number ready when you call.

Customer Service maintains a 24-hour bulletin board that you can access to download the latest drivers and other software.

Dayna Communications Bulletin Board	
Modem (up to 14400 Baud)	(801) 269-7398
Setup	N81
Login	your name or your company

You can also contact Dayna Customer Service using the following on-line services under these ID names.

AppleLink:	`DAYNA.TECH`
E-mail Address:	`support@dayna.com`
FTP Site	`ftp.dayna.com`
WWW Page	`http//www.dayna.com`
Connect:	`DAYNA`
America Online:	`DAYNACOM`

Dayna's mailing address is:

Dayna Communications, Inc.
Sorenson Research Park
849 West Levoy Drive
Salt Lake City UT 84123

Product Information and Sales

Sales representatives are available to give you information about any Dayna product and to take your order. For product information or to place an order, call (801) 269-7200 and ask for Sales.

Specifications

Operating Environment

Operating Temperature:	10° to 40° Centigrade 50° to 104° Fahrenheit
Storage Temperature:	10° to 40° Centigrade 50° to 104° Fahrenheit
Relative Humidity:	5% to 95% (noncondensing)
Altitude:	0 to 12,000 feet

Power

External 5 VDC 0.5A adapter
100-130 or 210-250 VAC 50-60 Hz (factory configurable)

Physical Description

Size:	3.1 in. x 4.25 in. x 1.25 in.
Weight:	5 oz.

Mini EtherPrint and Mini EtherPrint *Plus* Connectors and Cables

Ethernet:
—Built-in 802.3 thin Ethernet BNC connector
—BNC T-connector
—RJ-45 for twisted-pair connection
—Twisted-pair cable
LocalTalk:
—Standard mini-DIN-8 connector
—mini-DIN-8 to mini-DIN-8 cable, equivalent to an ImageWriter II cable

Mini EtherPrint-T and -T *Plus* Connectors and Cables

Ethernet:
—IEEE standard 802.3 RJ-45 jack
—One IEEE std. 802.3 10BASE-T unshielded twisted-pair cable with RJ-45 plugs at each end
LocalTalk:
—Standard mini-DIN-8 connector
—mini-DIN-8 to mini-DIN-8 cable, equivalent to an ImageWriter II cable

Certification

FCC Class A

Warranty

Lifetime

Glossary

activity light
The amber light on the top of Mini EtherPrint that verifies the hardware is working, that Mini EtherPrint is communicating with the network, and that data is being transmitted through the device.

adapter cable
For use with some older LocalTalk printers, the DB-9-to-DIN-8 adapter cable has a DB-9 connector that attaches to a DB-9 printer port and a DIN-8 connector that attaches to the LocalTalk connector on Mini EtherPrint. If needed, these cables can be obtained free of charge from Dayna's Customer Service department.

AppleTalk
The Apple Computer network system. AppleTalk can be implemented on a variety of cable systems, including LocalTalk and Ethernet.

BNC port
The BNC port on the Mini EtherPrint connects to thin Ethernet cable using a BNC Y-connector or T-connector.

EtherPrint Administrator
EtherPrint Administrator is a management tool for EtherPrint. You can use EtherPrint Administrator to give EtherPrint a name, assign it to a zone, give it a password, and assign passwords to the devices connected to it.

EtherTalk
The AppleTalk network software used with an Ethernet network.

link status LED
The middle light on the top panel. The link status light is lit when the 10BASE-T cable is plugged in correctly to a working network hub.

LocalTalk
One type of cable system used to link computers and peripheral devices in an AppleTalk network system. LocalTalk connectors are built in to every Macintosh computer and LaserWriter printer.

LocalTalk connector
Mini EtherPrint's LocalTalk port is an 8-pin connector. You'll plug one end of the LocalTalk printer cable into this port and the other end into the LocalTalk-compatible printer.

LocalTalk printer cable
Mini EtherPrint comes with a DIN-8-to-DIN-8 printer cable to connect to the LocalTalk printer.

power light
The green power light on the top of Mini EtherPrint is always on when Mini EtherPrint is plugged in and off when it's not.

RJ-45 jack
The connector on Mini EtherPrint device that accepts the RJ-45 plug on one end of a 10BASE-T cable.

SecurIt
SecurIt is a security protocol that requires Mini EtherPrint to request a password from a Macintosh on the network before it will allow access to any LocalTalk device that is attached to it.

SendEcho
A test utility that can help you determine if Mini EtherPrint is communicating properly after installation.

10BASE-T cable
An Ethernet cable system using unshielded twisted-pair wiring with RJ-45 eight-conductor plugs at each end. 10BASE-T cable standards are defined by the IEEE standard 802.3.

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